Sexually Transmitted Disease in the City of St. Louis 2006-2010



City of St Louis
Department of Health
September 2011

Sources

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314-612-5100

Data Sources: Missouri Department of Health and Senior Services STD-MIS (unless otherwise noted)

Questions regarding STD/HIV testing and counseling should contact: Center for HIV, STD, and Hepatitis Services 1-888-291-2437 314-612-5188 (Health Department) 314-879-6467 (ConnectCare Clinic)

Questions regarding this report may be directed to: Kelly Krahl Zara, MPH Epidemiologist krahlk@stlouiscity.com

The Cases

- 75.8% of Chlamydia and 66.3% of Gonorrhea cases in St. Louis City are among 15-24 year olds in 2010
- Over 90% of Chlamydia and Gonorrhea cases occur among African Americans (taken among total cases with known race)
- Future infertility is a serious concern for untreated STD/STI infection in youth and young adult age groups in the city

City of St. Louis – Department of Health Response (DOH)

- Increased education and training on screening and treatment practices for local health care providers
- Increased outreach using mobile testing methods funded by the Minority AIDS Initiative
- Continued expansion of education and outreach to area schools and youth programs, including Boys & Girls Club, Special School District, and several Charter Schools
- Expanded the regional HIV prevention group to include STD elimination. Partners include Planned Parenthood, St. Louis County Health Department, and Harris-Stowe State University

Strategic Goals

- Increase STD testing and treatment by determining gaps in the community
- Prevent STD infection through targeted education and outreach
- Develop a comprehensive STD surveillance system
- Sustain working evidence-based interventions
- Evaluate progress by evaluating test statistics from the state and private labs
- Identify at-risk populations through data analysis

City of St. Louis National STD Rankings Among Leading U.S. Counties and Cities, 1997-2004

Year	Chlamydia	Gonorrhea	Primary & Secondary Syphilis	*Congenital Syphilis
	Rank	Rank	Rank	Rank
1997	4	4	9	-
1998	3	1	7	22
1999	2	3	8	4
2000	6	4	26	27
2001	3	2	23	10
2002	5	1	29	-
2003	5	1	23	-
2004	2	1	5	-

[†] Rankings prior to 2005 were based on rate per 100,000.

Source: Centers for Disease Control and Prevention – Annual STD Surveillance Summaries as Published

^{*}Congenital Syphilis has not been ranked since 2001

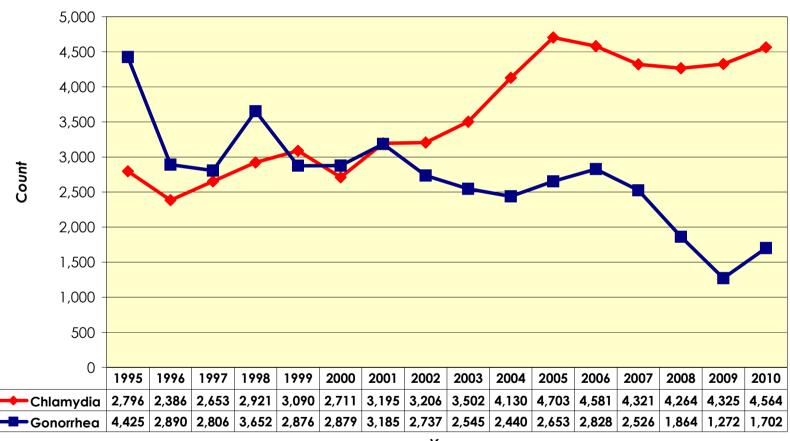
St. Louis Metropolitan Statistical Area STD Rankings Among Selected *MSAs, 2005-2009

YEAR	CHLAMYDIA		DIA GONORRHEA		PRIMARY & SECONDARY SYPHILIS	
	Rate	Count	Rate	Count	Rate	Count
	Rank	Rank	Rank	Rank	Rank	Rank
2005	5	10	5	8	38	32
2006	6	12	4	9	36	31
2007	7	14	8	9	27	23
2008	11	14	14	12	30	24
2009	12	14	25	17	40	33

^{*}Metropolitan Statistical Areas were selected based on the largest population according to the 2000 U.S. Census, Definitions for MSAs are issued by the Office of Management and Budget (OMB) to be used in presentation of statistics by agencies of the federal government

Source: Centers for Disease Control and Prevention – Annual STD Surveillance Summaries as published

Count of Chlamydia and Gonorrhea Cases City of St. Louis 1995-2010



Count of Primary and Secondary Syphilis City of St. Louis 1995-2010



Chlamydia, Gonorrhea, & Syphilis Rates per 100,000 by Year City of St. Louis, 1995-2010

Year	Chlan	nydia	Gono	orrhea	Seco	ry and ndary hilis	_	Latent hilis	•	enital ilis*°
	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates	Cases	Rates
1995	2,796	779.5	4,425	1233.6	361	100.6	289	80.6	24	401.2
1996	2,386	683.1	2,890	827.4	142	40.7	136	38.9	8	137.6
1997	2,653	776.0	2,806	820.8	64	18.7	83	24.3	5	87.4
1998	2,921	860.8	3,652	1076.3	58	17.1	63	18.6	3	53.7
1999	3,090	882.5	2,876	821.3	51	14.6	40	11.4	5	90.9
2000	2,711	781.4	2,879	829.8	11	3.2	21	6.1	1	18.4
2001	3,195	932.1	3,185	929.2	15	4.4	15	4.4	4	75.9
2002	3,206	947.5	2,737	808.9	13	3.8	23	6.8	1	19.4
2003	3,502	1054.1	2,545	766.1	18	5.4	12	3.6	1	19.0
2004	4,130	1243.1	2,440	734.4	47	14.2	21	6.3	0	0.0
2005	4,703	1442.8	2,653	813.9	34	10.4	20	6.1	3	59.1
2006	4,581	1346.9	2,828	831.5	36	10.6	19	5.6	2	37.2
2007	4,321	1228.9	2,526	718.4	53	15.1	28	8.0	0	0.0
2008	4,264	1201.7	1,864	525.3	58	16.3	36	10.1	1	18.5
2009	4,325	1235.0	1,272	363.2	40	11.4	55	15.7	1	18.5
2010	4,564	1329.5	1,702	495.8	56	16.3	49	14.3	0	0.0

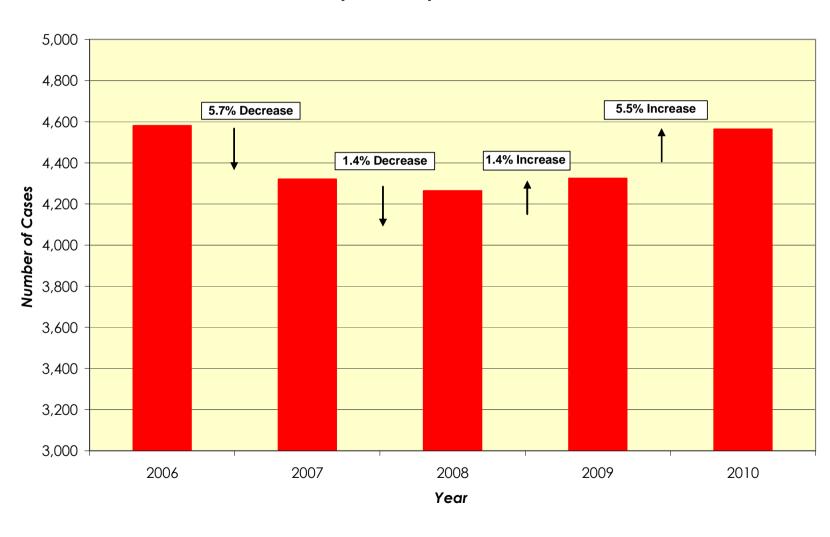
^{*} Congenital Syphilis rates per 100,000 Live Births; all other rates per 100,000 population

Source: 1994 - 2004: STD Surveillance Reports, Centers for Disease Control and Prevention website 2005 to 2010 from the Missouri Department of Health and Senior Services

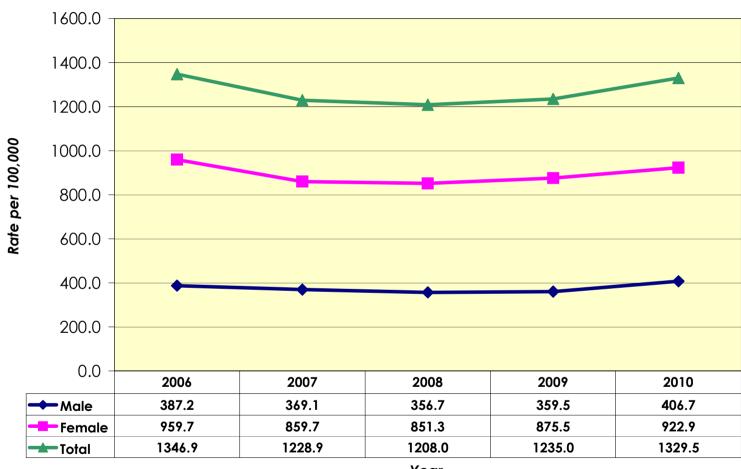
[°]Congenital Syphilis Rates for 08 and 09 are calculated using 2008 live birth data

Chlamydia

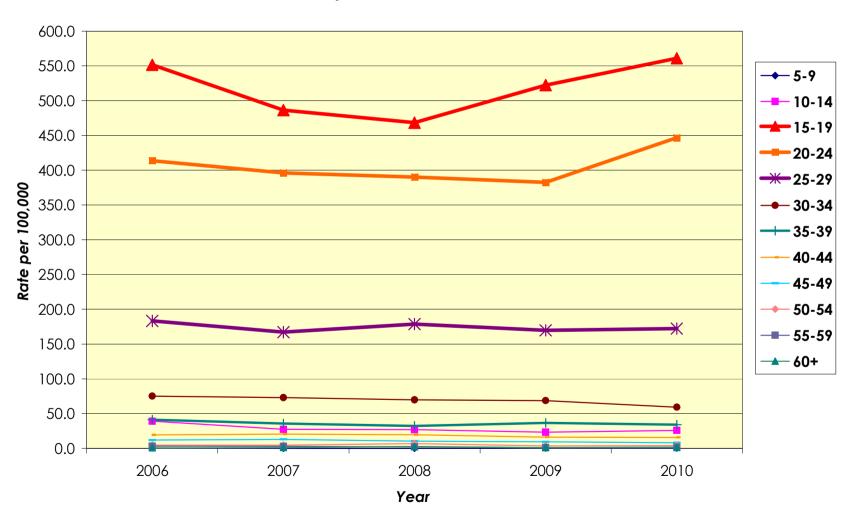
Cases of Chlamydia - City of St. Louis 2006-2010



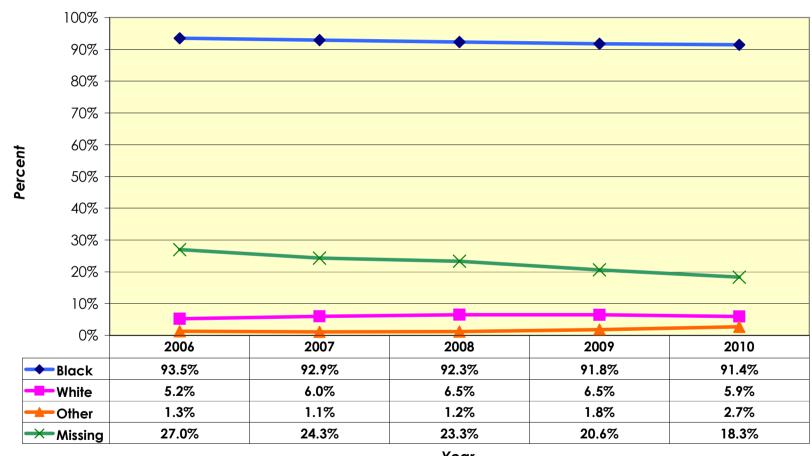
Chlamydia Rates by Gender per 100,000 City Population City of St. Louis, 2006-2010



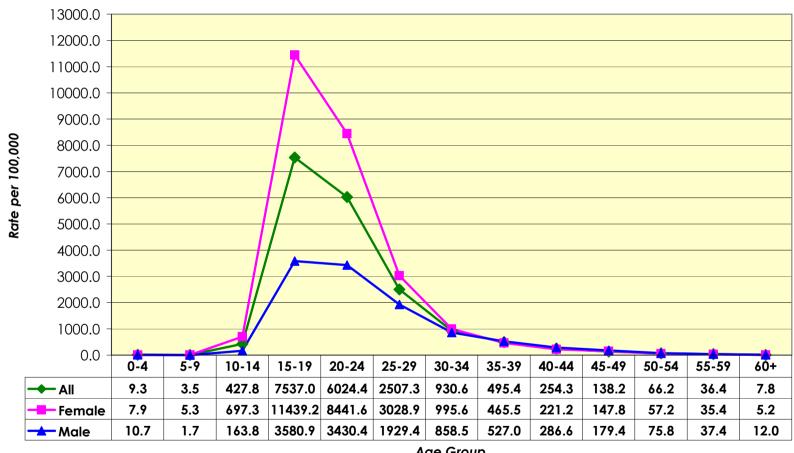
Chlamydia Rates by Age Group per 100,000 City Population City of St. Louis 2006-2010



Percent of Chlamydia Cases by Known Race City of St. Louis, 2006-2010

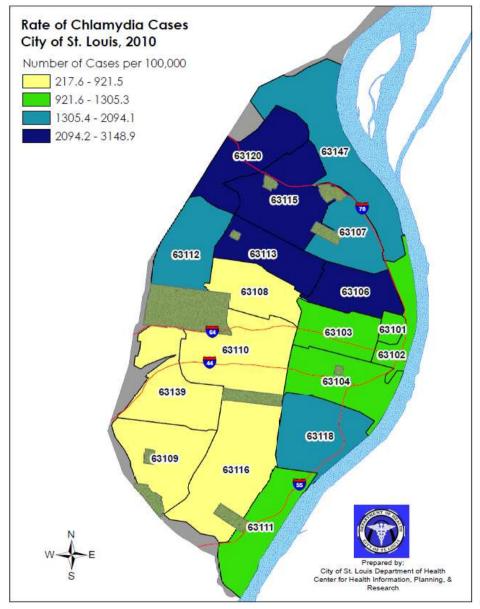


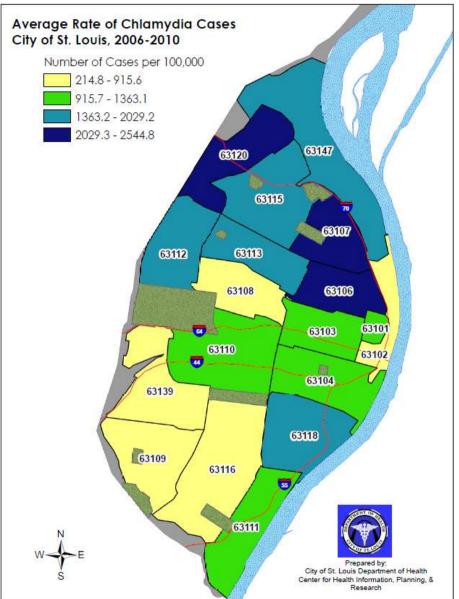
Chlamydia Rates per 100,000 Population by Age Group and Gender City of St. Louis, 2006-2010 Five-Year Average



Age Group

Zip Code Mapping





Chlamydia Compared

<u> 2006-2010 Average</u>	<u>2010</u>
4398.0 cases	4564 cases
70.4% Female*	69.4% Female*
92.4% Black**	91.4% Black**
72.8% 15-24 age group	75.8% 15-24 age group
Highest rate by zip code:	Highest rate by zip code:

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63106

63120

63113

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63106

63120

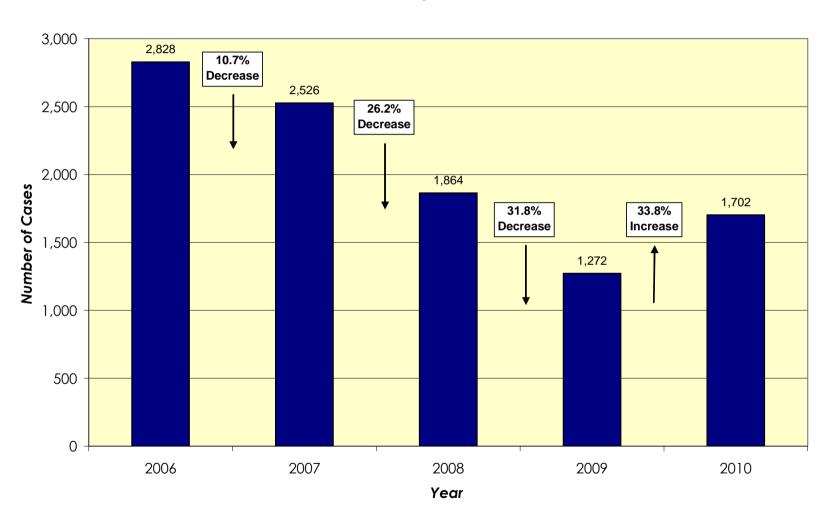
63113

^{*}Screening is targeted to women of child bearing age to prevent infertility, a complication of untreated Chlamydia infection. However, screening among females and males became more widespread between 2003-2004

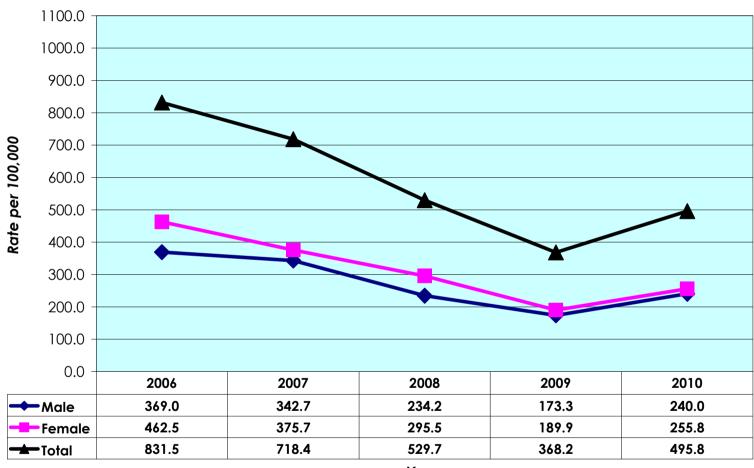
^{**} Percent taken among total **cases** with known race.

Gonorrhea

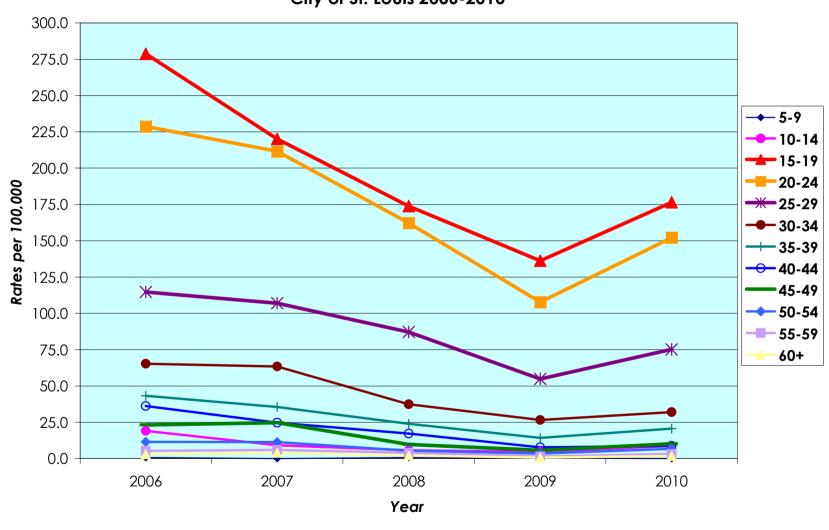
Cases of Gonorrhea - City of St. Louis 2006-2010



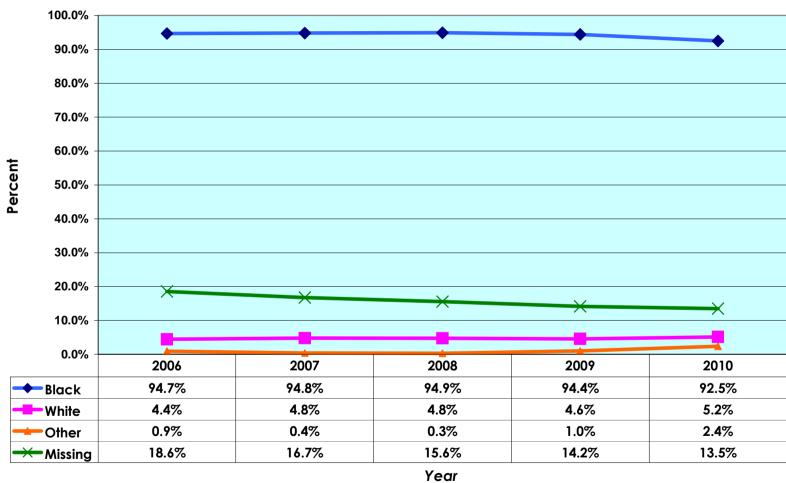
Gonorrhea Rates by Gender per 100,000 City Population City of St. Louis 2006-2010



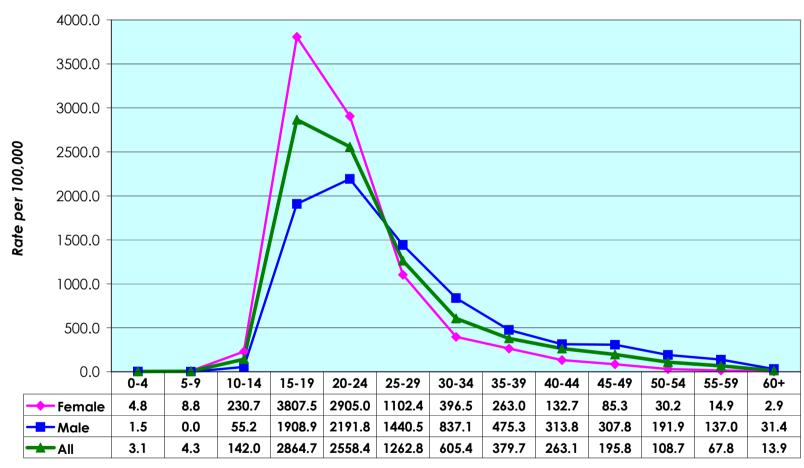
Gonorrhea Rates by Age Group per 100,000 City Population City of St. Louis 2006-2010



Percent of Gonorrhea Cases by Known Race, City of St. Louis 2006-2010

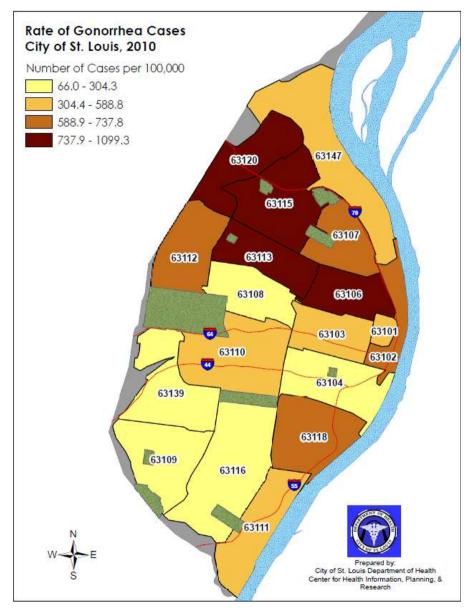


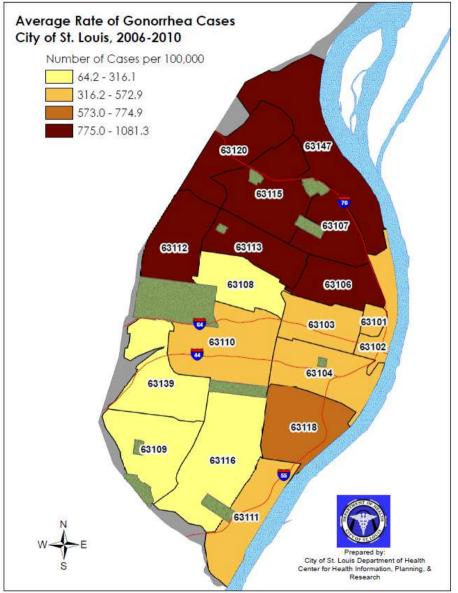
Gonorrhea Rates per 100,000 City Population by Age Group and Gender - City of St. Louis, 2006-2010 Five-Year Average



Age Group

Zip Code Mapping





Gonorrhea Compared

2006-2010 Average	<u>2010</u>
2033.8 cases	1702 cases
53.7% Female	51.6% Female
94.3% Black*	92.5% Black*
62.9% 15-24 age group	66.3% 15-24 age group
Highest rate by zip code:	Highest rate by zip code:
63120	63106
63113	63113
63115	63120

^{*} Percent taken among total cases with known race.

Female to Male Ratio of Cases by Year, City of St. Louis 2006-2010

Chlamydia (all ages)

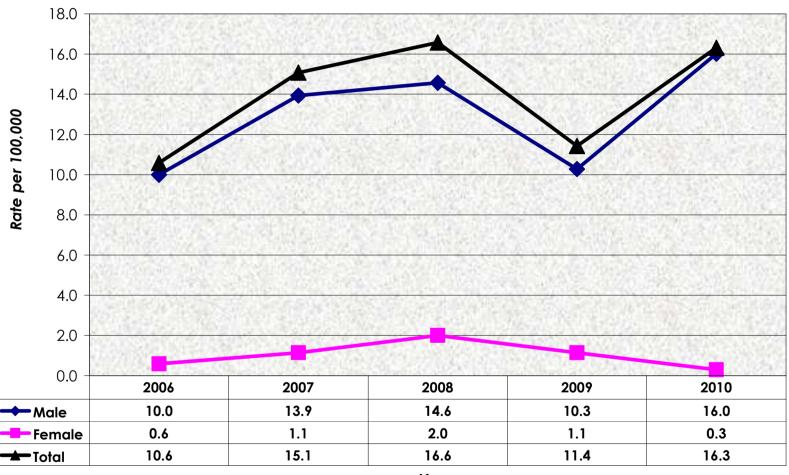
Year	Female	Male	Ratio
2006	3264	1317	2.5
2007	3023	1298	2.3
2008	2959	1240	2.4
2009	3066	1259	2.4
2010	3168	1396	2.3
Five Year Average	3096	1302	2.4

Gonorrhea (all ages)

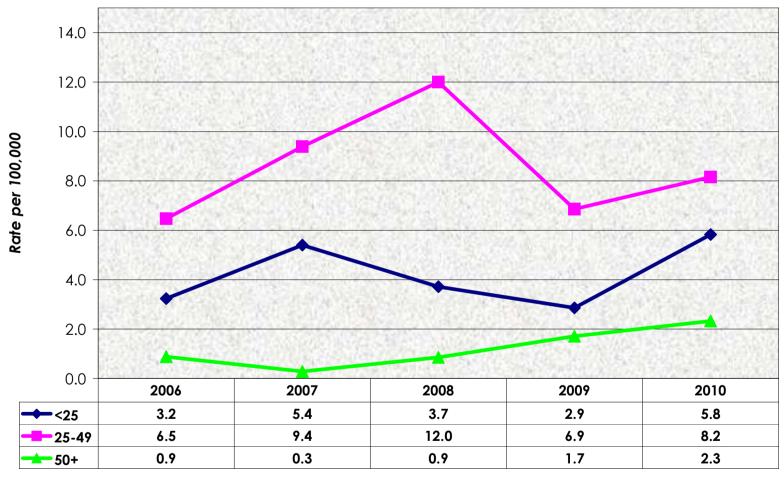
Year	Female	Male	Ratio
2006	1573	1255	1.3
2007	1321	1205	1.1
2008	1027	814	1.3
2009	665	607	1.1
2010	878	824	1.1
Five-Year Average	1092.8	941	1.2

Primary and Secondary Syphilis

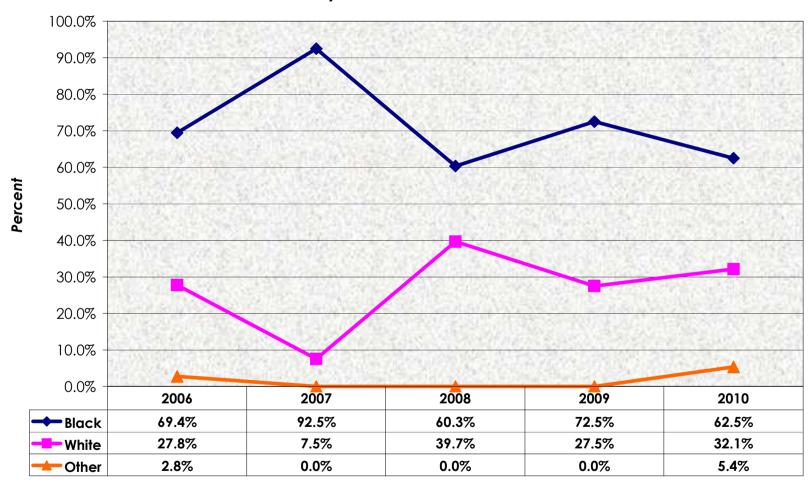
Primary & Secondary Syphilis Rates per 100,000 City Population by Gender and Year, City of St. Louis 2006-2010



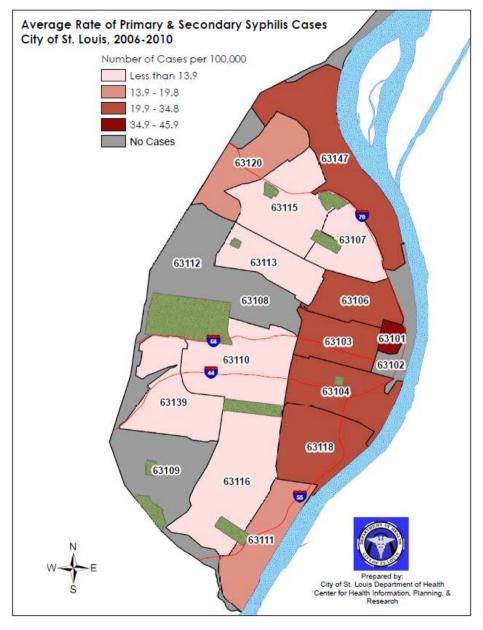
Rates of Primary & Secondary Syphilis per 100,000 City Population by Age Group and Year, City of St. Louis 2006-2010

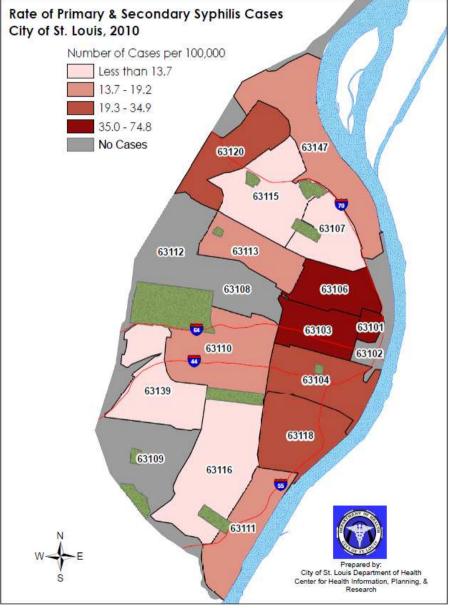


Percentage of Primary and Secondary Syphilis Cases by Race City of St. Louis 2006-2010



Zip Code Mapping





Primary & Secondary Syphilis Compared

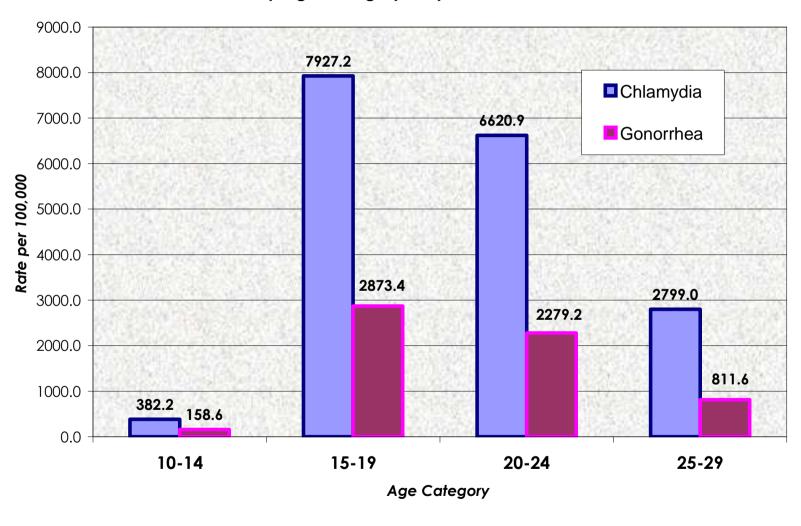
2006-2010 Average	<u>2010</u>
48.6 cases	56 cases
92.6% Male	98.2% Male
71.2% Black	62.5% Black
61.3% 25-49 age group	50% 25-49 age group
Highest rate by Zip Code: 63103	Highest rate by Zip code:
63118	63103
	63106
63104	63104

Male to Female Ratio of Primary and Secondary Syphilis Cases by Year, 2006-2010 City of St. Louis

Year	Male	Female	Ratio
2006	34	2	17.0
2007	49	4	12.3
2008	51	7	7.3
2009	36	4	9.0
2010	55	1	55.0
Five-Year Average	45.0	3.6	12.5

Sexually Transmitted Disease in Youth and Young Adults

Age-Specific Disease Rates per 100,000 Among Youth and Young Adults by Age Category, City of St. Louis 2010



Female to Male Ratio of Cases by Year, City of St. Louis 2006-2010

Chlamydia (Ages 15-19)

Year	Female	Male	Ratio
2006	1444	432	3.3
2007	1301	409	3.2
2008	1260	368	3.4
2009	1409	420	3.4
2010	1439	487	3.0
Five Year Average	1370.6	423.2	3.2

Gonorrhea (Ages 15-19)

Year	Female	Male	Ratio
2006	671	277	2.4
2007	506	268	1.9
2008	421	183	2.3
2009	303	174	1.7
2009	380	226	1.7
Five Year Average	456.2	225.6	2.0

Zip Code Mapping

